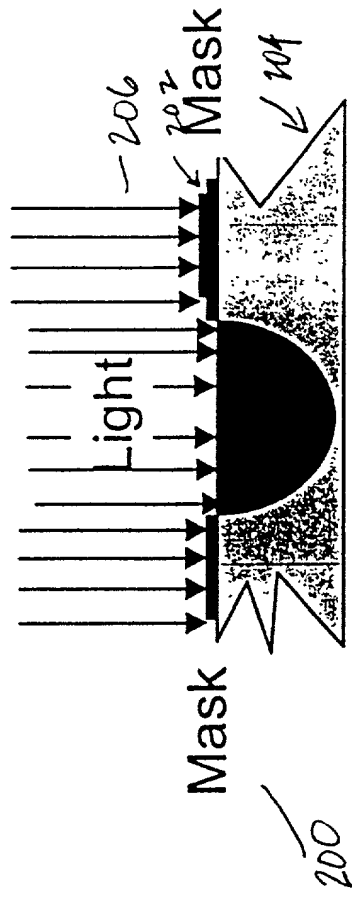


Figure 1

— Photo bleaching



— Molding



— Etching



— Doping

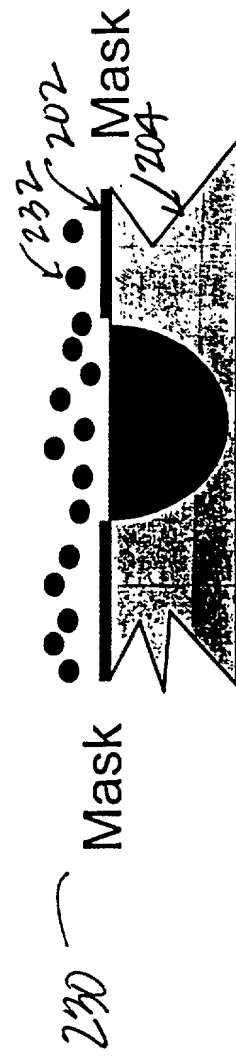


FIGURE 2

Properties Materials	Absorption Coefficient @650 nm	Refractive index	Tg (°C)	CTE (ppm)	Tensile strength (Mpa)	Modulus of elasticity (Gpa)	Cost 1 mm thick (\$/ ft²)
PMMA	0.000 54 /cm	1.49	115	90	41~76	3.5	1.58
Polycarbonate	Same as PMMA	1.58	145	39	77	2.2	
Polystyrene	Same as PMMA	1.58	100	40	52	3.1	
Silica Glass	0.000 01 /cm	1.47	1 175	0.55	75	70	
UFFG (Ultra Fine Flat Glass)	Same as PMMA	1.52	550	9	496	71	0.9
BT Resin			300	58	255	0.4~0.6	

Table 1